

REPORTS ON THE FLORA OF THE BOSTON DISTRICT,—XLVIII.

COMPOSITAE.

RUDBECKIA.

R. hirta L. Dry fields, very common throughout.

R. hirta L., var. **tubuliforme** Burnham. *Am. Bot.* xx. 22, 1914. Wellesley Hills (*Bradford Torrey*, July 30, 1905). Specimen in herb. Gray.

R. laciniata L. Meadows and wet thickets; frequent north and west of Boston, rare or lacking in southern towns. The form commonly cultivated under the name of "Golden Glow" is frequently persistent, and rarely sporadic on dumps.

R. SPECIOSA Wenderoth. Wellesley (*Margaret C. Ferguson*, July 5, 1889). Specimen in herb. Wellesley College.

SANTOLINA.

S. CHAMAECYPARISSIAS L. Thoroughly introduced in sandy bank near Monponsett station, Hanson (*M. L. Fernald*, Oct. 29, 1916). Specimens in herb. Gray and N. E. Botanical Club. Native of southern Europe.

SENECIO.

S. aureus L. Swamps and meadows, common throughout.

S. JACOBAEA L. Pasture, Danvers (*Mrs. J. M. Kennedy*, Oct. 15, 1910). Specimen in herb. Gray.

S. MACDOUGALII Heller. *Bull. Torr. Bot. Club* xxvi. 592, 1899. N. Andover (*A. S. Pease*, Sept. 17, 1893). Specimen in herb. N. E. Botanical Club. Native of Arizona.

S. obovatus Muhl. Dry rocky and gravelly soil, rare; Boxford, Topsfield, "in collibus siccis umbrosis ad Ipswich," (*Wm. Oakes*, no date), Needham.

S. pauperculus Michx. (Includes *S. Balsamitae* Muhl. and vars. *pauperculus* (Michx.) Fernald and *praelongus* Greenman. See *Ann. Mo. Bot. Gard.* iii. 159 1916.) Dry pastures and exposed ledges; occasional from Blue Hills northward, also at Marshfield.

S. VISCOSUS L. Waste places in moist soil occasional in the cities.

S VULGARIS L. Waste places in moist soil; frequent in Boston and vicinity, occasional elsewhere.

SERICOCARPUS.

S. asteroides (L.) B S P. Dry open woods and pastures, very common throughout.

S. linifolius (L.) B S P. Dry open woods and pastures, frequent throughout.

SILPHIUM.

S. PERFOLIATUM L. Escaped from cultivation to waste land; Danvers, Cambridge, Boston (Fenway).

SILYBUM.

S. MARIANUM (L.) Gaertn. Appeared suddenly as garden weed, Lexington (*Miss E. L. Shaw*, July 27, 1898). Specimen in herb. Gray.

SOLIDAGO.

S. altissima L. Open places in rich soil; few records from western and southwestern towns, but common elsewhere.

S. arguta Ait. Woods; occasional from Blue Hills and Dover northward.

× **S. asperula** Desf. Borders of salt-marshes above high tide; frequent from Revere to Scituate, probably elsewhere.

S. bicolor L. Dry sandy soil, very common throughout.

S. caesia L. Rich woods, common throughout.

S. caesia L., var. **axillaris** (Pursh) Gray. Usually in drier soil than the species, occasional.

S. caesia L., var. **paniculata** Gray. Rich woods, frequent.

S. canadensis L. Fields and pastures; common, except in southern towns.

S. canadensis L., var. **Hargeri** Fernald. RHODORA xvii. 11-12, 1915. Salisbury (*A. A. Eaton*, no date). Specimen in herb. N. E. Botanical Club.

S. Elliottii T. & G. Rich moist soil; frequent from Hingham, Blue Hills, Dedham and Sherborn south, often abundant. This is the northern limit of the species in New England, but it reappears in Nova Scotia (see Fernald, RHODORA xxiii. 292, 1921).

S. graminifolia (L.) Salisb. Moist soil, occasional in northern towns.

S. graminifolia (L.) Salisb., var. **Nuttallii** (Greene) Fernald. Fields and roadsides, common throughout.

S. humilis Pursh. (*S. uliginosa* Nutt. See RHODORA xvii. 6, 1915; x. 88-89, 1908.) Very wet meadow, Boxford (*E. F. Williams*, Aug.

19, 1906); specimen in herb. Gray; "Dedham to Ponkapoag" (*Wm. Boott*, Aug. 27, 1869); specimen in herb. Wellesley College.

S. juncea Ait. Dry sandy soil, very common throughout.

S. latifolia L. Rich woods; not reported from southern towns, occasional northward.

S. nemoralis Ait. Dry sandy fields and hillsides, very common throughout.

S. puberula Nutt. Dry sandy soil, common throughout.

[*S. rigida* L. Reported from Framingham in *RHODORA* i. 97, 1899, but no specimen is available.]

S. rugosa Mill. Swamps, thickets and waste places; very common throughout.

S. rugosa Mill., var. **aspera** (Ait.) Fernald. *RHODORA* xvii. 7, 1915. Fields and woods, common.

S. rugosa Mill., var. **sphagnophila** Graves. Swamps and wet meadows; frequent from Stoneham, Malden and Dedham south toward the coast.

S. rugosa Mill., var. **villosa** (Pursh) Fernald. Wellesley (*F. W. Hunnewell*, September, 1910). Specimen in herb. F. W. Hunnewell.

S. sempervirens L. Salt-marshes and seashores, common and abundant all along the coast.

S. serotina Ait. Swamps and thickets; occasional from Sharon, Needham and Ashland north.

S. serotina Ait., var. **gigantea** (Ait.) Gray. Swamps and meadows; no reports from southern towns, but occasional elsewhere.

S. speciosa Nutt. Dry open woods and fields; occasional and often abundant (18 stations).

S. squarrosa Muhl. Dry ground and open woods, rare; Beverly, Burlington, Westford, Groton.

S. suaveolens Schoepf. (*S. odora* Ait., see *RHODORA* xxi. 69-70, 1919.) Dry woods and fields, common throughout.

S. tenuifolia Pursh. Wet meadows and sandy shores of ponds; frequent in southern towns; rare northward (Rockport, Newburyport, Tewksbury, Wilmington, Westford).

S. ulmifolia Muhl. Dry woods in rich soil; occasional, but apparently rare in southern towns.

S. uniligulata (DC.) Porter. Bogs and peaty swamps, frequent.

S. uniligulata (DC.) Porter, var. **neglecta** (T. & G.) Fernald. *RHODORA* xxiii. 292, 1921. Bogs and swamps, very common throughout.

S. suaveolens Schoepf × **rugosa** Mill. Open deciduous woods, Stony Brook Reservation, one plant (*N. T. Kidder*, Aug. 26, 1920).

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